

STATE OF OHIO
 COUNTY OF HURON
HUR-T.R. 114-06.43
 RIDGE ROAD BRIDGE REPLACEMENT
 OVER THE EAST BRANCH
 OF THE HURON RIVER
 2020
 BRONSON TOWNSHIP

INDEX OF SHEETS

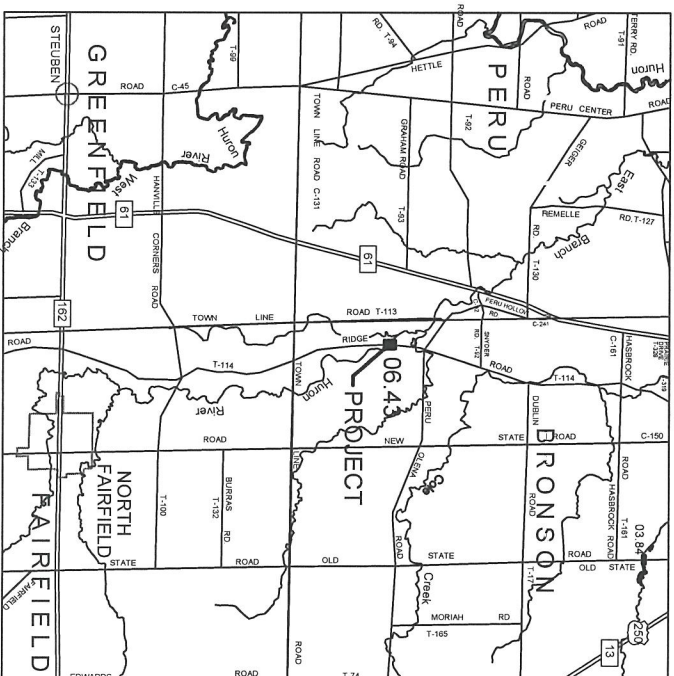
TITLE SHEET	1
TYPICAL SECTION	2
PLAN & PROFILE	3
CROSS SECTIONS	4-6
GENERAL NOTES	7-8
DETOUR PLAN	9
RIGHT OF WAY	10-14

UNDERGROUND UTILITIES

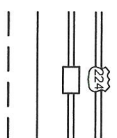
TWO WORKING DAYS
 BEFORE YOU DIG

CALL 1-800-362-2764 (TOLL FREE)
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE
 SERVICE CALL: 1-800-929-0988



U.S. ROUTES
 STATE ROUTES
 OTHER ROADS
 CORP. LINE



2019 SPECIFICATIONS


THE STANDARD SPECIFICATIONS OF THE STATE
 OF OHIO, DEPARTMENT OF TRANSPORTATION,
 INCLUDING CHANGES AND SUPPLEMENTAL
 SPECIFICATIONS LISTED IN THE PROPOSAL SHALL
 GOVERN THIS IMPROVEMENT.

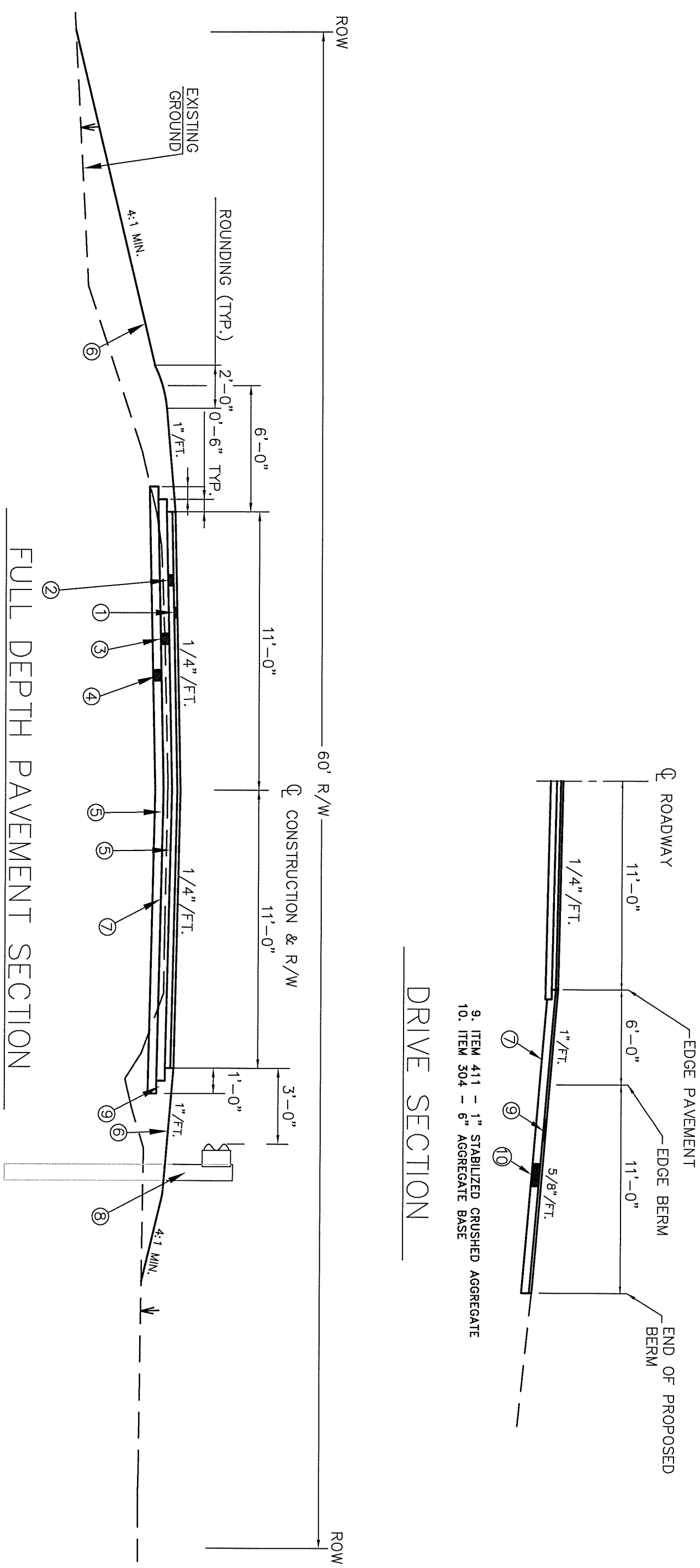
DATE APPROVED 8/28/19

[Signature]
 HURON COUNTY ENGINEER
 LEE E. TANSEY, P.E., P.S.

Plan Prepared By:

THE OFFICE OF THE HURON COUNTY ENGINEER
 LEE E. TANSEY, P.E., P.S.
 150 JEFFERSON STREET
 NORWALK OHIO 44857
 PH. : (419) 668-1997

	HUR-T.R. 114-06.43	RAILROAD INVOLVEMENT NONE	CONSTRUCTION PROJECT NO. N/A	PID NO. 93990	FEDERAL PROJECT NO. E161(170)
------------------------------------------------------------------------------------	---------------------------	-------------------------------------	----------------------------------------	-------------------------	-----------------------------------------



DRIVE SECTION

FULL DEPTH PAVEMENT SECTION

ITEM LEGEND

- 1. ITEM 441 - 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22.
- 2. ITEM 441 - 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22.
- 3. ITEM 304 - 6" AGGREGATE BASE
- 4. ITEM 301 - 6" ASPHALT CONCRETE BASE
- 5. ITEM 407 - TACK COAT
- 6. ITEM 659 - SEEDING AND MULCHING
- 7. ITEM 204 - SUBGRADE COMPACTION
- 8. ITEM 606 - GUARDRAIL, TYPE MGS, LONG POST
- 9. ITEM 411 - AGGREGATE BERM (LIMESTONE) 9"

CALCULATED
MSK
CHECKED
LET

TYPICAL SECTION

RIDGE ROAD
HUR-T.R.114-06.43

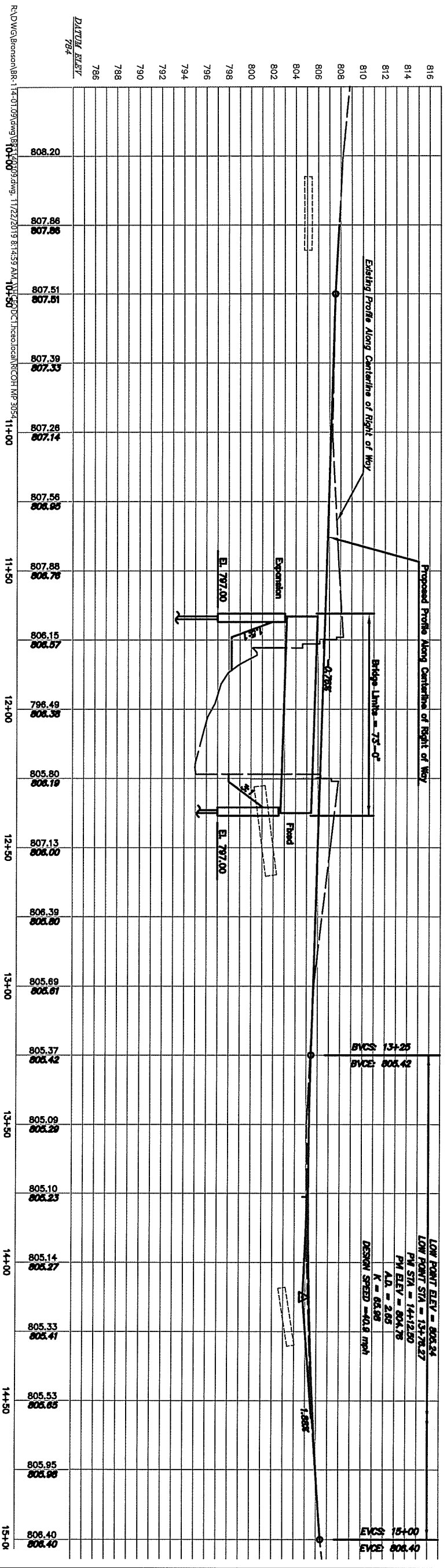
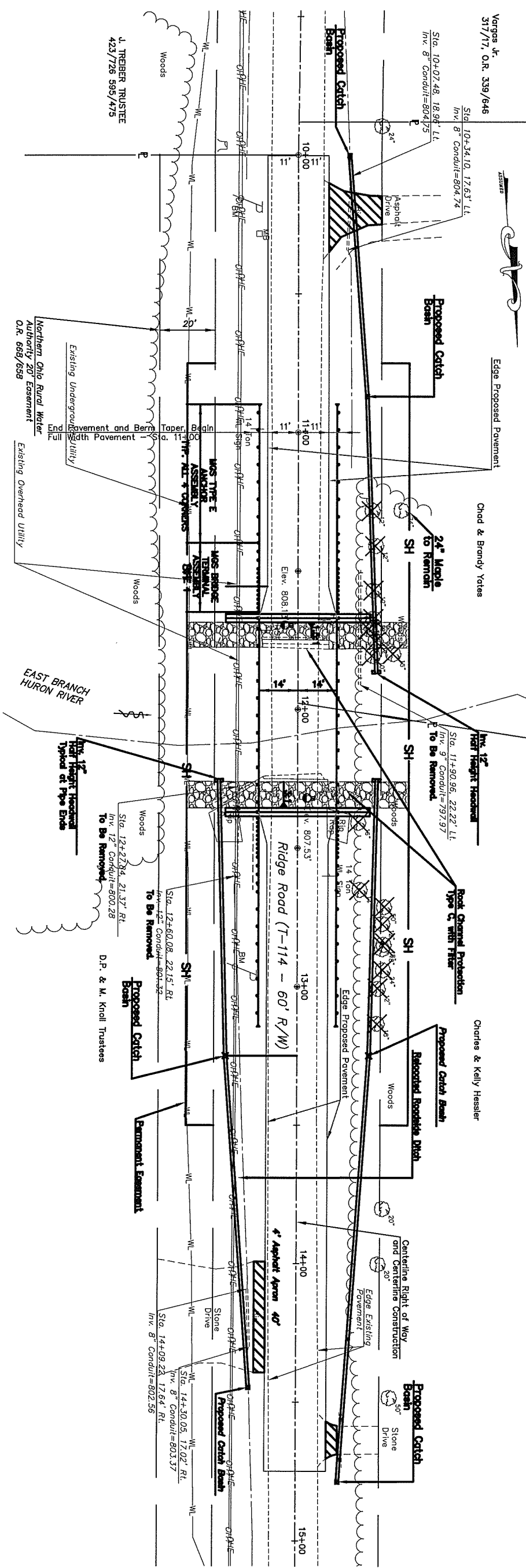
2
14

UNDERGROUND UTILITIES

48 HOURS BEFORE YOU DIG
CALL: 800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY
CALL: 800-925-0988 (TOLL FREE)
OHIO OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGUPS)

NOTE

TREES REMOVED SHALL BE CUT INTO FIREWOOD, 18" IN LENGTH AND STACKED ALONG THE EASEMENT BOUNDARY LINE. FIREWOOD SHALL BE ANT BRANCH OR TREE LARGER THAN 4" IN DIAMETER. ALL BRUSH AND STUMPS SHALL BE REMOVED FROM THE SITE. ALL COSTS TO BE INCLUDED IN ITEM 201, CLEARING AND GRUBBING.

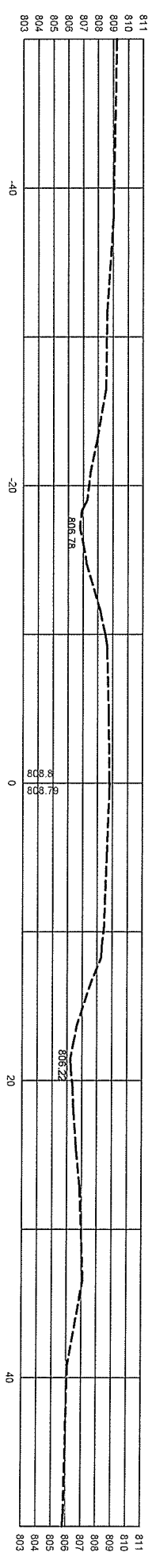
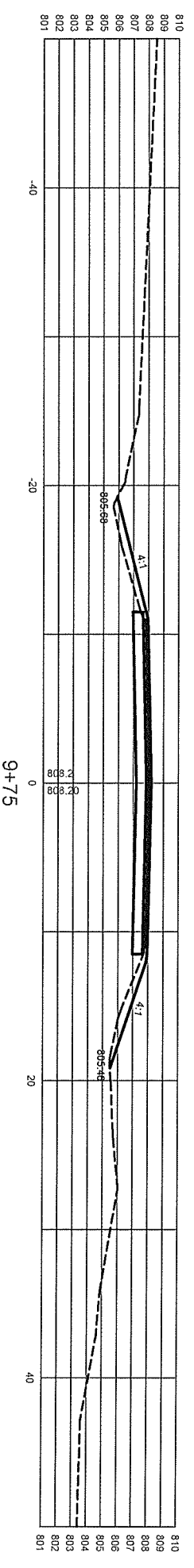
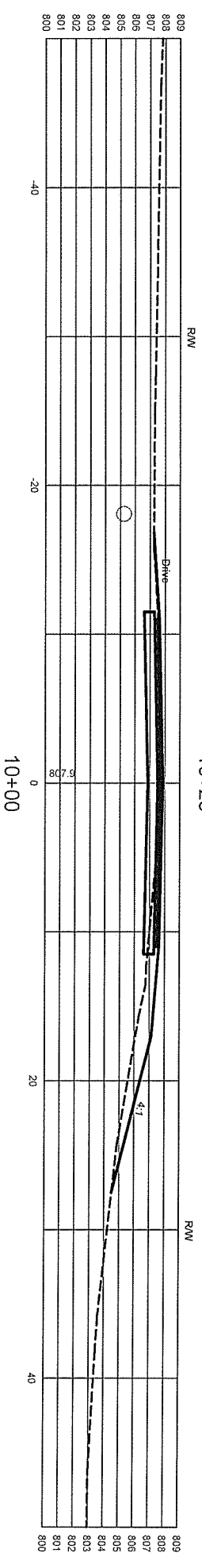
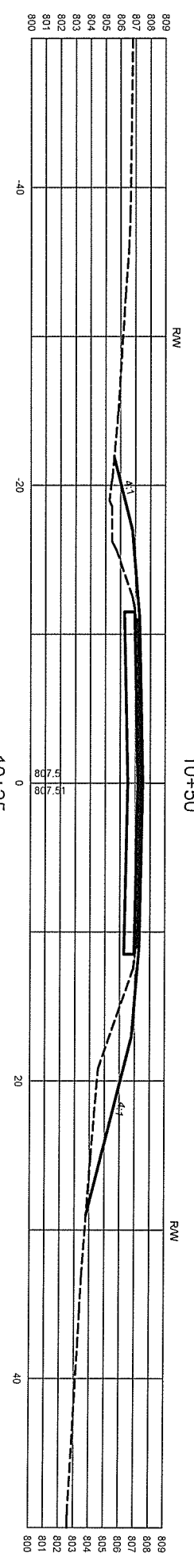
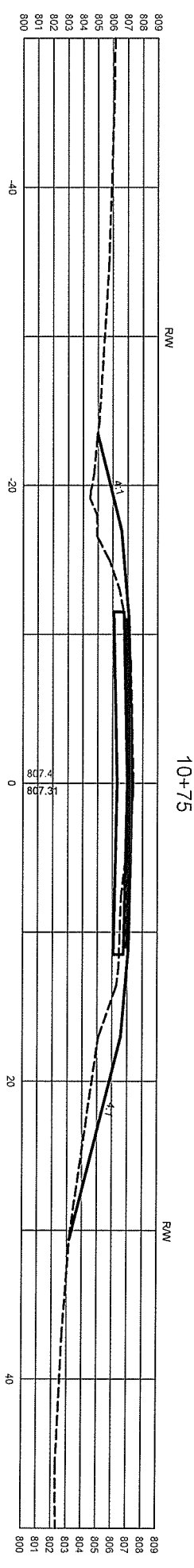
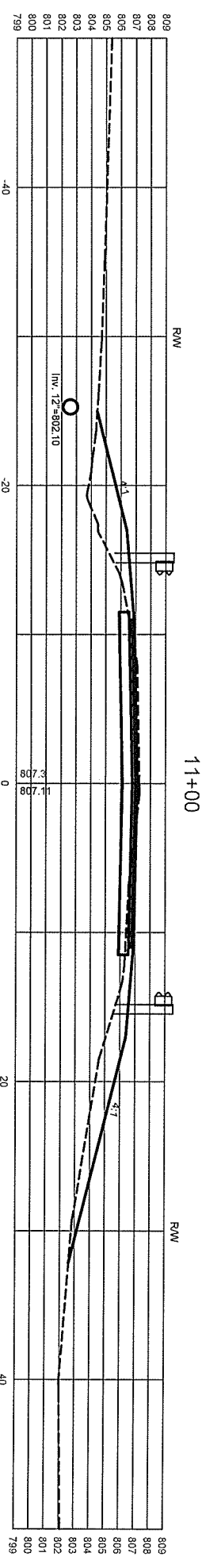
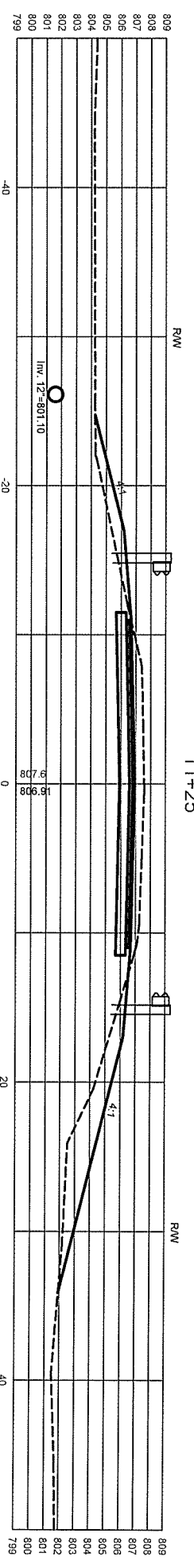


<p>HURON COUNTY ENGINEER</p> <p>LEE E. TANSEY, P.E., P.S. 150 Jefferson Street Norwalk, Ohio 44857 419/668-1997</p>		<p>GRAPHIC SCALE</p> <p>0 40 80</p> <p>(IN FEET)</p> <p>1 inch = 40 ft.</p>		<p>BENCHMARKS</p> <p>1. 60d Nail Set in Power Pole #58 DX/2-12 Sta. 50+75.78, 22.17' Lt. (Elevation 935.62)</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Date	Remarks																															<p>EXISTING STRUCTURE</p> <p>TYPE: Single Span Welded Steel Pony Truss on Concrete Wall Abutments</p> <p>CLEAR SPAN: 45'-8" F/F Abutment Walls</p> <p>ROADWAY: 20'-1" F/F Guardrail</p> <p>LOADING: HS-20</p> <p>SKEW: NONE</p> <p>DATE BUILT: 1948</p> <p>CONDITION:</p>		<p>PROPOSED STRUCTURE</p> <p>TYPE:</p> <p>LENGTH:</p> <p>WATERWAY AREA:</p> <p>ROADWAY:</p> <p>LOADING:</p> <p>SKEW:</p> <p>WEARING SURFACE:</p>	
No.	Date	Remarks																																										
<p>LOCATION: BRONSON TWP, SEC. 4, G.L. 39 & 40, RIDGE ROAD</p>		<p>DATE: 8/22/19</p> <p>DESIGNED: LET</p> <p>CHECKED:</p> <p>JOB NUMBER: HUR-114-06.43</p>		<p>LOW POINT ELEV = 806.34</p> <p>PVI STA = 14+12.80</p> <p>PH ELEV = 804.78</p> <p>ALX = 2.05</p> <p>K = 65.98</p> <p>DESIGN SPEED = 40.8 mph</p>		<p>EXISTING STRUCTURE</p> <p>TYPE: Single Span Welded Steel Pony Truss on Concrete Wall Abutments</p> <p>CLEAR SPAN: 45'-8" F/F Abutment Walls</p> <p>ROADWAY: 20'-1" F/F Guardrail</p> <p>LOADING: HS-20</p> <p>SKEW: NONE</p> <p>DATE BUILT: 1948</p> <p>CONDITION:</p>		<p>PROPOSED STRUCTURE</p> <p>TYPE:</p> <p>LENGTH:</p> <p>WATERWAY AREA:</p> <p>ROADWAY:</p> <p>LOADING:</p> <p>SKEW:</p> <p>WEARING SURFACE:</p>																																				
<p>DATE: 8/22/19</p> <p>DESIGNED: LET</p> <p>CHECKED:</p> <p>JOB NUMBER: HUR-114-06.43</p>		<p>LOW POINT ELEV = 806.34</p> <p>PVI STA = 14+12.80</p> <p>PH ELEV = 804.78</p> <p>ALX = 2.05</p> <p>K = 65.98</p> <p>DESIGN SPEED = 40.8 mph</p>		<p>EXISTING STRUCTURE</p> <p>TYPE: Single Span Welded Steel Pony Truss on Concrete Wall Abutments</p> <p>CLEAR SPAN: 45'-8" F/F Abutment Walls</p> <p>ROADWAY: 20'-1" F/F Guardrail</p> <p>LOADING: HS-20</p> <p>SKEW: NONE</p> <p>DATE BUILT: 1948</p> <p>CONDITION:</p>		<p>PROPOSED STRUCTURE</p> <p>TYPE:</p> <p>LENGTH:</p> <p>WATERWAY AREA:</p> <p>ROADWAY:</p> <p>LOADING:</p> <p>SKEW:</p> <p>WEARING SURFACE:</p>																																						

DATE	BY	SCALE	PROJECT
12/08/15	JK	1" = 5'	
3	OHIO	HUR-14-06.43	
		HURON COUNTY	

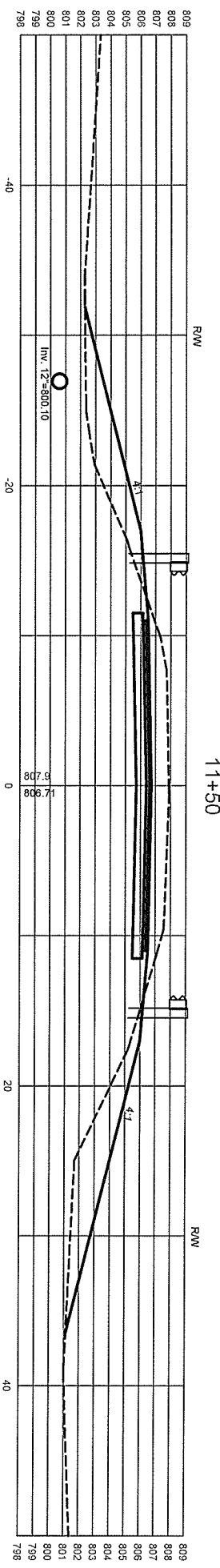
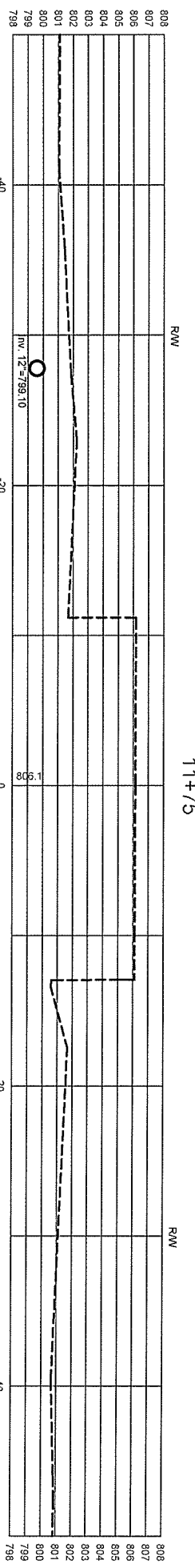
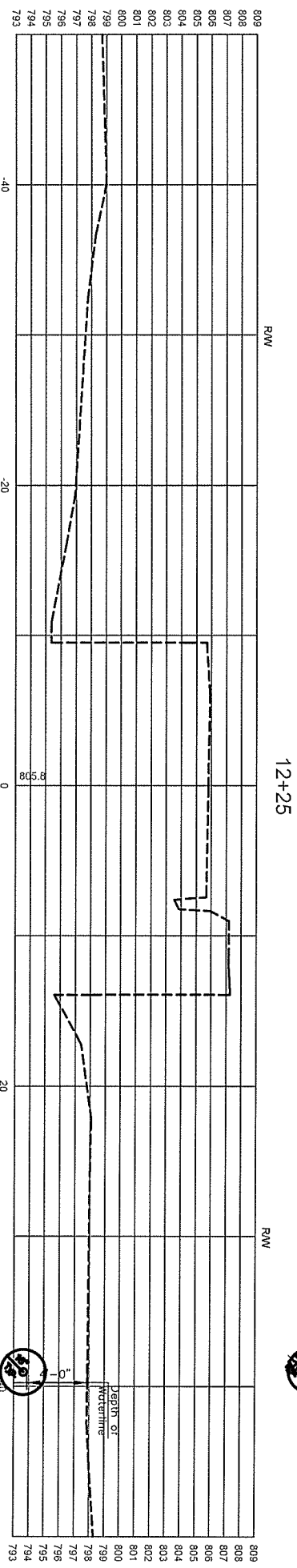
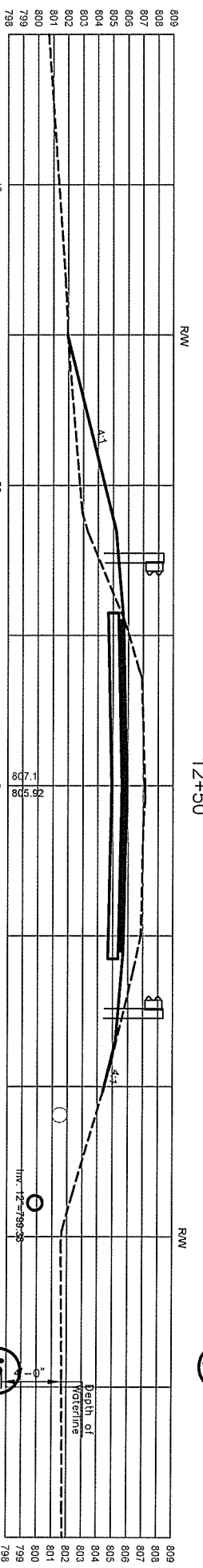
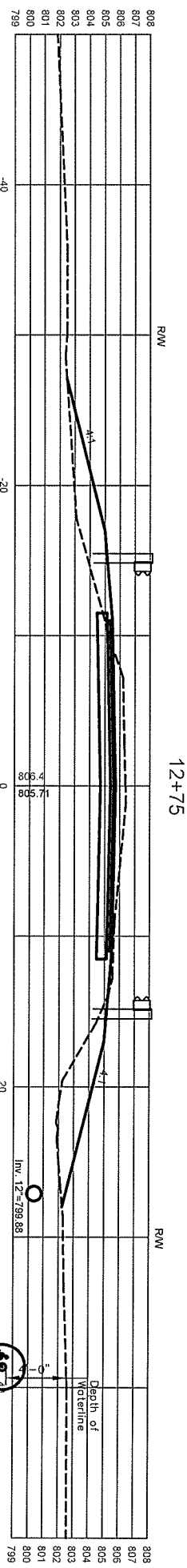
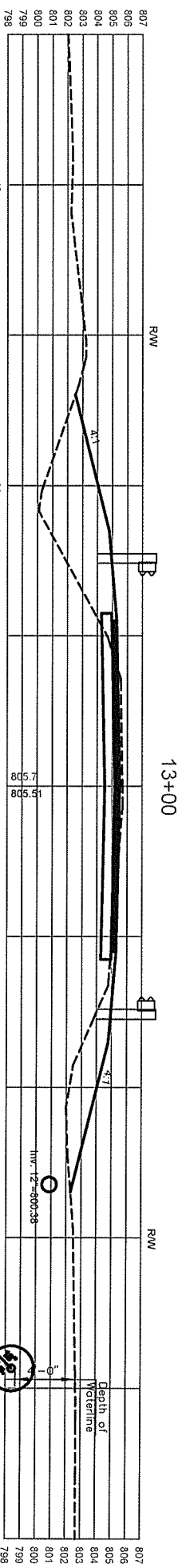


SCALE / HORIZ: 1" = 5'
VERT: 1" = 5'



DATE	BY	SCALE	STATE	PROJECT
12/28/15	JL	1" = 5'	OHIO	HUR-14-06.43
3			HURON COUNTY	

SCALE / HORZ.: 1" = 5'
VERT.: 1" = 5'

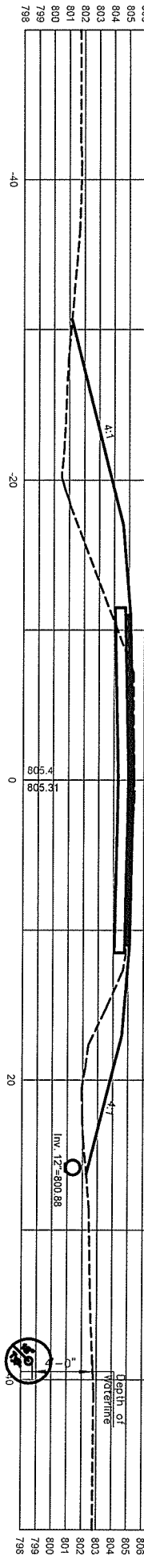
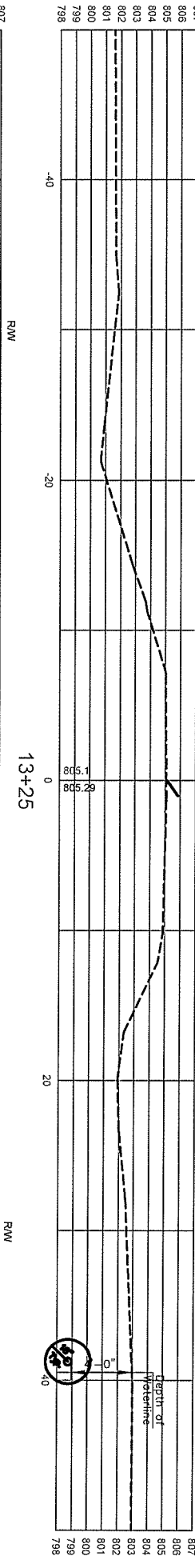
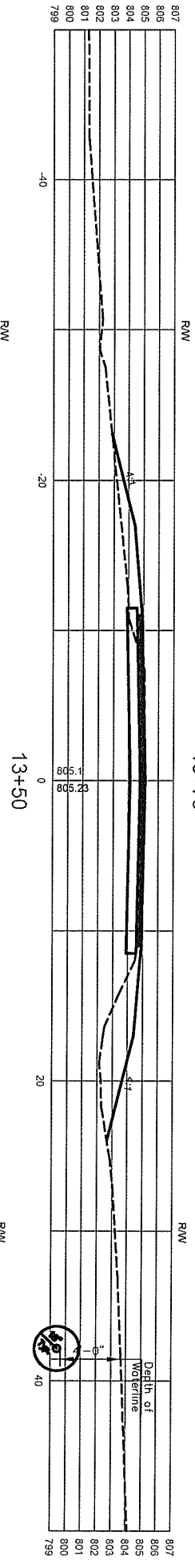
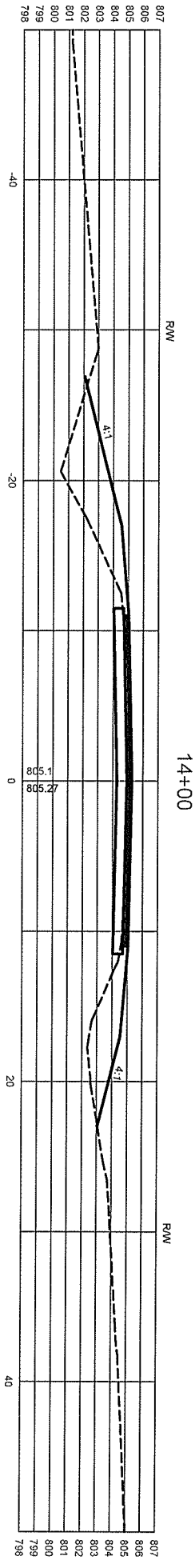
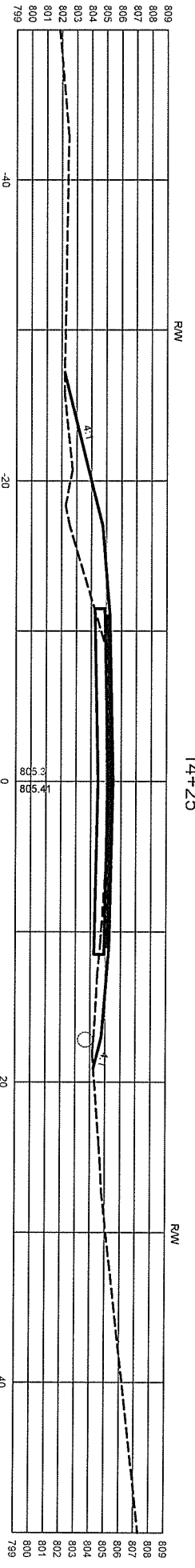
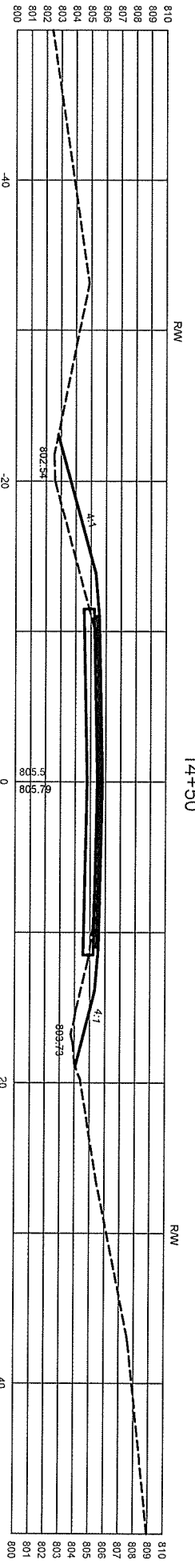
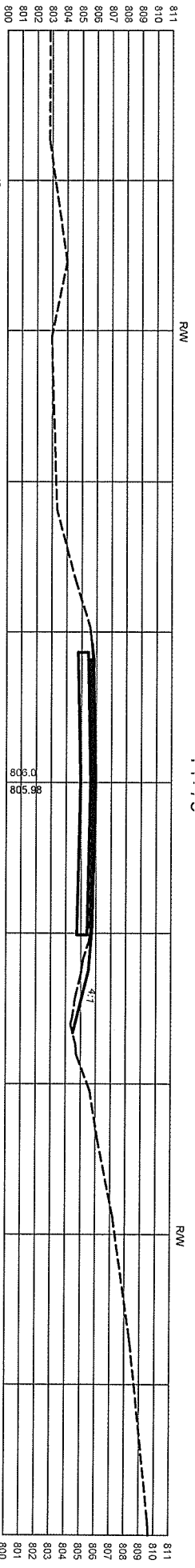


(Ridge Road) Sta. 11+50 thru Sta. 13+00

CALC. BY	DATE	PROJECT
PRYOR	12/28/15	
DATE	NO.	DATE
3	OHIO	HUR-114-06.43
HURON COUNTY		

6
14

SCALE / HORZ: 1" = 5'
VERT: 1" = 5'



PROJECT SCHEDULE
PROJECT SHALL NOT BEGIN UNTIL MARCH 15, 2020 AND COMPLETED BY SEPTEMBER 2020.

ALL DAYS BEYOND THE SCHEDULED COMPLETION DATE WILL BE ASSESSED LIQUIDATED DAMAGES ACCORDING TO ODOT 108.017-1.

GENERAL SPECIFICATIONS
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

REFERENCES
TO THE DEPARTMENT, DCE, DDD, DET, ENGINEER, OR INSPECTOR IN THE STANDARD SPECIFICATIONS SHALL BE CONSIDERED REFERENCES TO THE DESIGNATED REPRESENTATIVE OF THE HURON COUNTY ENGINEERS' OFFICE. REGULATIONS

ALL WORK MUST COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS IN ALL RESPECTS, INCLUDING COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

ROUNDING:
THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES:
LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:
FIRELANDS ELECTRIC COOPERATIVE INC.
1 ENERGY PLACE
NEW LONDON, OHIO 44851
PHONE: 1-800-533-8858

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ALL EXPENSES INVOLVED IN ADJUSTMENT OR RELOCATION OF ANY AFFECTED UTILITY LINES SHALL BE BORNE BY THE UTILITY. CONTRACTOR SHALL NOTIFY THE UTILITY OWNER AT THEIR ADDRESS IF UTILITY LINE IS TO BE ADJUSTED, RELOCATED, DE-ENERGIZED OR REMOVED DURING PILE DRIVING OPERATIONS.

CONTINGENCY QUANTITIES
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

CLEARING AND GRUBBING
REMOVE ALL STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT. REMOVE ALL STUMPS AS SET FORTH IN THE SPECIFICATIONS UNDER THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING. FIREWOOD TO REMAIN FOR PROPERTY OWNERS.

ITEM 623 - CONSTRUCTION STAKING
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH, PLACE AND MAINTAIN THE CONSTRUCTION STAKES NECESSARY FOR PROPER CONSTRUCTION. THE ENGINEER HAS ESTABLISHED THE PRIMARY HORIZONTAL AND VERTICAL CONTROL FOR THIS PROJECT. ADDITIONAL HORIZONTAL AND VERTICAL CONTROL INFORMATION IS AVAILABLE FROM THE COUNTY ENGINEER.

DRAINAGE
DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
TREES OR STUMPS REMOVED. LANDSCAPING CONTRACTOR IS TO CONTACT THE PROPERTY OWNERS BEFORE TREES, STUMPS OR LANDSCAPING IS REMOVED TO ARRANGE FOR THEIR REMOVAL. ALL TREES FOR FIREWOOD OR LUMBER AND LANDSCAPING IS TO BECOME THE PROPERTY OF THE PROPERTY OWNERS. DO NOT DISTURB OR REMOVE THESE ITEMS UNTIL THESE ARRANGEMENTS HAVE BEEN MADE. CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL BRUSH AND UNWANTED ITEMS.

ITEM SPECIAL SANDSTONE PLACEMENT FOR EROSION CONTROL-GREEK
ALL UNIMAGED SANDSTONES REMOVED SHALL BE USED FOR EROSION CONTROL.

ITEM 518, POROUS BACKFILL WITH FILTER FABRIC
POROUS BACKFILL WITH FILTER FABRIC, 2 FEET THICK SHALL EXTEND UP TO THE SUBGRADE, AND DOWN TO THE ELEVATION INDICATED ON DETAIL SHEET. THE POROUS BACKFILL SHALL BE INSTALLED ALONG BOTH SIDES OF THE BOX CULVERT FROM THE SUBGRADE TO AT LEAST 6" BELOW THE PERFORATED UNDERDRAIN AND ALONG INSIDE OF ALL WINGWALLS.
ALL FOUR SIDES OF THE POROUS BACKFILL SHALL BE COMPLETELY WRAPPED IN FILTER FABRIC. FILTER FABRIC SHALL CONFORM TO 712.08, TYPE A AND BE INCLUDED WITH ITEM 518, POROUS BACKFILL WITH FILTER FABRIC FOR PAYMENT.

ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
THE TACK COAT OPERATION SHALL BE AS DIRECTED BY THE ENGINEER. THE RATE OF APPLICATION OF THE TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF:

ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE - 0.10 GAL./SQ. YD.
ITEM 407 - TACK COAT FOR SURFACE COURSE - 0.05 GAL./SQ. YD.

ITEM 659 - SEEDING AND MULCHING
SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 619 - FIELD OFFICE, TYPE A
NO FIELD OFFICE
ACCESS

THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PHASES AND OPERATIONS IN A MANNER THAT PROVIDES ACCESS TO PROPERTY OWNERS/TENANTS AFFECTED BY THE WORK AT ALL TIMES, UNLESS OTHERWISE AGREED TO BY THE OWNER/TENANT.

CONSTRUCTION LIMITS
THE CONTRACTOR MUST AT ALL TIMES CONDUCT HIS OPERATIONS WITHIN THE PUBLIC RIGHT-OF-WAY.

BEST MANAGEMENT PRACTICES
BEST MANAGEMENT PRACTICES FOR SOIL EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS SET FORTH IN THE MOST CURRENT VERSION OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LOCATION AND DESIGN MANUAL SUPPLEMENTAL SPECIFICATIONS 832, AND STANDARD DRAWINGS SHALL BE USED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL, ALONG WITH ADDITIONAL PROTECTIVE MEASURES TO AVOID IMPACTS TO ADJACENT PROPERTIES AND WETLANDS FROM CONSTRUCTION ACTIVITIES.

EROSION/SEDIMENTATION IMPACTS SHALL BE KEPT TO A MINIMUM THROUGH THE USE OF BEST MANAGEMENT PRACTICES FOR SOIL EROSION AND SEDIMENTATION CONTROL. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED IN THE PLAN SHALL BE IN PLACE PRIOR TO ANY EXCAVATION, GRADING OR FILLING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. THEY SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED AS ACCEPTED BY THE ENGINEER. THEY SHALL ALSO COMPLY WITH ODOT'S "HANDBOOK FOR SEDIMENT AND EROSION CONTROL."

ITEM 203 - EMBANKMENT
EMBANKMENT SLOPES STEEPER THAN 2 TO 1 SHALL BE STABILIZED ACCORDING TO THE SQUARE YARD BID PRICE FOR ITEM 670, SLOPE EROSION PROTECTION.

MAILBOX SUPPORTS
THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX OR EXISTING MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED OR DIRECTED BY THE ENGINEER TO REMOVE AND REPLACE EXISTING NON-CONFORMING MAILBOX SUPPORTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY MAILBOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS DIRECTED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4"x4" SQUARE OR A 4" DIAMETER ROUND, AND SHALL CONFORM TO 710.14. STEEL POSTS SHALL BE NOMINAL PIPE, SIZE 2" I.D. AND SHALL CONFORM TO AASHTO M-181, AND SHALL BE FURNISHED WITH ANTI-TWIST PLATES. ANY MATERIAL WITH BREAKAWAY CROSS SECTION CHARACTERISTICS EQUIVALENT TO THE ABOVE MAY BE SUBSTITUTED WITH APPROVAL OF THE ENGINEER, HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL GRADE GALVANIZED STEEL.

POSTS SHALL BE SET IN ACCORDANCE WITH THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENGAGED WITH CONCRETE. DEPTH OF EMBEDMENT SHALL BE 18" MINIMUM (24" MAXIMUM FOR STEEL POSTS). THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE INSTALLATION OF THE MAIL BOX AND POST SUPPORT. PROVIDE ACCESS FOR MAIL DELIVERY AT ALL TIMES.
PAYMENT FOR THIS ITEM SHALL BE LIMITED TO FINAL PERTINENT INSTALLATION. TEMPORARY INSTALLATION SHALL BE IN ACCORDANCE WITH 107.10, HOWEVER, THE SAME MATERIAL AND SIZE SHALL APPLY.
MAILBOX SUPPORTS COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, ITEM SPECIAL, MAILBOX SUPPORT.

ENVIRONMENTAL
TREE REMOVAL WILL ONLY BE PERFORMED BEFORE APRIL 1ST OR AFTER SEPTEMBER 30TH WHEN BAIT SPECIES WOULD NOT BE USING ROOST OR BROOD-REARING HABITAT. FIREWOOD TO REMAIN FOR PROPERTY OWNERS.

REMAINING DISTURBED SOILS THAT ARE NOT COVERED BY HARD SURFACES WILL BE RE-SEEDDED WITH NATIVE VEGETATION. THE STAGING AREA SHOULD BE DONE WELL AWAY FROM THE STREAM AND ANY WETLANDS IN THE AREA.

PRIOR TO REMOVAL OF THE BRIDGE, THE UNDERSIDE WILL BE CAREFULLY EXAMINED FOR THE PRESENCE OF BATS, ESPECIALLY FROM APRIL 1ST TO SEPTEMBER 30TH. IF ANY BATS ARE FOUND ROOSTING ON THE UNDERSIDE OF THE BRIDGE, OADR WILL BE CONTACTED IMMEDIATELY WITH THIS INFORMATION.

HURON COUNTY ENGINEER'S STAFF WILL NOTIFY IN WRITING AT LEAST 10 DAYS PRIOR TO THE DETOUR THE FOLLOWING AGENCIES: TOWNSHIP TRUSTEES, LOCAL FIRE DEPARTMENT, LOCAL SCHOOL DISTRICT, AND HURON COUNTY SHERIFF'S DEPARTMENT.

ITEM 611 - FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE PROVIDED WITH AN OUTLET INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

ITEM 832 - STORM WATER POLLUTION PREVENTION PLAN

THE CONTRACTOR SHALL PROVIDE FOR APPROVAL BY THE HURON COUNTY ENGINEER, A STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 832. THE CONTRACTOR SHALL REMOVE THE EROSION CONTROL MEASURES AS DIRECTED BY THE ENGINEER.

GENERAL SPECIFICATIONS ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HURON COUNTY AND THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION 2016 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ITEM 509 EPOXY COATED REINFORCING STEEL
REINFORCING STEEL - ASTM A615, A616 OR A617 GRADE 60, MINIMUM YIELD STRENGTH = 60,000 P.S.I. AND IN ACCORDANCE WITH ITEM 509 ALL REINFORCING STEEL SHALL BE EPOXY COATED AS PER O.D.O.T.'S 709.00.

C/C SPACING OF THE REINFORCING STEEL SHALL BE ADJUSTED TO ALLOW PIPES TO ENTER THE WALLS WITHOUT INTERFERENCE AND ONLY WITH APPROVAL FROM THE ENGINEER.

ALL REINFORCING STEEL THAT MUST BE CUT IN THE FIELD SHALL HAVE AN EPOXY COATING APPLIED TO ALL AREAS WHERE UNCOATED IS EXPOSED, COST TO BE INCLUDED IN ITEM 509.

ITEM 511, CLASS 0C1 CONCRETE FOR STRUCTURES (AS PER PLAN)
ALL EXPOSED EDGES OF CONCRETE WINGWALLS AND HEADWALLS SHALL RECEIVE A 3/4" CHAMFER. CONCRETE SHALL BE IN ACCORDANCE WITH ITEM 511. THE CONCRETE IS TO BE CLASS 0C1 WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. 4" DRAIN OUTLETS SHALL CONFORM TO ITEM 508 FALSEWORK AND FORMS. COST INCLUDED IN ITEM 511 CLASS 0C1 CONCRETE. ALL CONCRETE MUST CURE FOR 7 DAYS BEFORE ANY BACKFILLING OR LOADING OF CONCRETE TAKES PLACE. UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
FORM WORK: SYMONS/PLYWOOD FORMS-SNAP TIES WITH PLASTIC CONES. REMOVE CONES AND FILL ALL VOIDS WITH NON-SHRINK GROUT. MEYA-THE HOLES COMPLETELY GROUT ENTIRE WIDTH OF WALL WITH NON-SHRINK GROUT.

ALL EXCAVATION AND BACKFILL REQUIRED FOR CONSTRUCTION OF WINGWALLS/HEADWALLS SHALL BE INCLUDED WITH ITEM 503. ALL AREAS OF EXCAVATION WITHIN 1:1 INFLUENCE FROM THE EDGE OF PAVEMENT SHALL BE BACKFILLED WITH 304 AGGREGATE, ALL COST INCLUDED WITH ITEM 503.

FORMS SHALL BE USED IN CONSTRUCTION OF ALL FOOTERS AND WALLS, COST INCLUDED IN ITEM 511.

TOPSOIL FURNISHED AND PLACED - 4"
REMOVAL OF STONES 1 INCH OR GREATER FROM ALL AREAS ON THE PROJECT. REFER TO ODOT ITEMS 653.03 AND 659.10 FOR SITE PREPARATION, AREAS WHERE FILL REQUIREMENTS AND DISTURBED AREAS DO NOT ALLOW A FULL 4" THICKNESS OF TOPSOIL. FEATHER TO EXISTING GRADE AS REQUIRED PER TYPICAL SECTION AND/OR CROSS SECTION. FILL QUANTITIES AS SHOWN ON CROSS SECTION SHEETS FOR EMBANKMENT TOTALS ONLY.
GRANULAR MATERIAL
ALL AGGREGATE MATERIALS SHALL BE LIMESTONE, SUPPLIED BY AN ODOT APPROVED SOURCE.

ITEM 441, 3" ASPHALT CONCRETE TYPE 1, DRIVE APRON (AS PER PLAN) ITEM 441, ASPHALT CONCRETE FOR DRIVE APRON SHALL INCLUDE ALL WORK NECESSARY TO PAVE EXISTING AGGREGATE APRON, INCLUDING ALL GRADING/EXCAVATION AND COMPACTION OF EXISTING AGGREGATE FOR THE CONSTRUCTION OF ASPHALT DRIVE APRON.

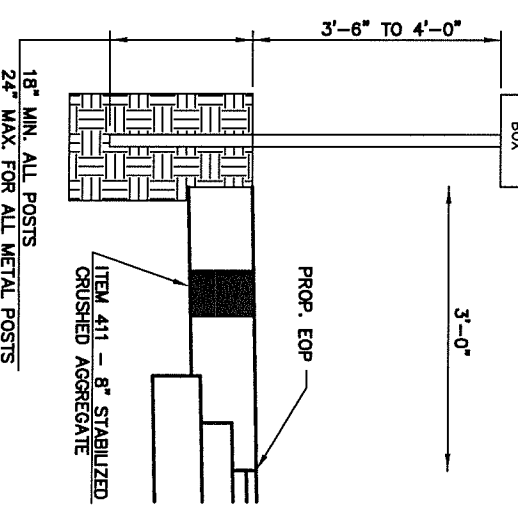
ITEM 407- TACK COAT AND ITEM 407-TACK COAT FOR INTERMEDIATE COURSE
THE TACK COAT OPERATION SHALL BE AS DIRECTED BY THE ENGINEER. THE RATE OF APPLICATION OF THE TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF:

407, TACK COAT
407, TACK COAT FOR INTERMEDIATE COURSE

ITEM 659-COMMERCIAL FERTILIZER
FERTILIZER SHALL BE APPLIED TO ALL AREAS THAT ARE DESIGNATED FOR SEEDING AND MULCHING AT RATE OF 20LBS/1000 SF. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:
ITEM 659-COMMERCIAL FERTILIZER 19-19-19

ITEM 659, CLASS 1-SEEDING AND MULCHING
SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.
THE QUANTITY FOR ITEM 659-SEEDING AND MULCHING, ARE BASED ON THESE LIMITS.
TOPSOIL FURNISHED AND PLACED-4"

REMOVAL STONES 1-INCH OR GREATER FROM ALL AREAS ON THE PROJECT REFER TO ODOT ITEMS 653.03 AND 6259.10 FOR SITE PREPARATION, AREAS WHERE FILL REQUIREMENTS AND UNDISTURBED AREAS DO NOT ALLOW A FULL 4" THICKNESS OF TOPSOIL. FEATHER TO EXISTING GRADE AS REQUIRED PER TYPICAL SECTION AND/OR CROSS SECTION. FILL QUANTITIES AS SHOWN ON CROSS SECTION SHEETS AREA FOR EMBANKMENT TOTALS ONLY.



CALCULATED
R&K
CHECKED
191

GENERAL NOTES

**RIDGE ROAD
HUR-T.R.114-06.43**

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THE CURRENT ODOT BRIDGE DESIGN MANUAL, AND THE AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS, 2011 EDITION.

DESIGN LOADING

HL-93
FUTURE WEARING SURFACE OF 60 LBS PER SQ. FT.

DESIGN DATA

CONCRETE, CLASS QC 1 - COMPRESSIVE STRENGTH AT 28 DAYS, $f'_c=4.0$ KSI (SUBSTRUCTURE)
REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

CONCRETE FOR PRESTRESSED BEAMS
COMPRESSIVE STRENGTH (AT 28 DAYS) - 7.0 KSI
COMPRESSIVE STRENGTH (RELEASE) - 5.0 KSI

PRESTRESSING STRANDS - ASTM A416 GRADE 270, 1/2" DIAMETER, SEVEN WIRE, UNCOATED, LOW RELAXATION STRANDS, HAVING $A_s = 0.167$ SQ. IN., $f'_s = 270,000$ P.S.I., INITIAL STRESS $0.75 f'_s = 202,500$ P.S.I., INITIAL TENSION LOAD = 33,818 LBS. / STRAND AND STRESS AT RELEASE $0.69 f'_s = 186,300$ P.S.I. (ASSUMED AT SECTION OF MAX. MOMENT.)

DECK PROTECTION METHOD

TYPE 3 WATERPROOFING AND STEEL DRIP STRIP WITH ASPHALT OVERLAY.

PRESTRESSED BEAM SHOP DRAWINGS

MANUFACTURER SHALL FURNISH THE HURON COUNTY ENGINEERS OFFICE WITH DESIGN SPECIFICATIONS, CALCULATIONS AND SHOP DRAWINGS FOR THE PRESTRESSED CONCRETE BOX BEAMS, SEALED BY A REGISTERED PROFESSIONAL ENGINEER. HURON COUNTY SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO THE MANUFACTURING OF THE BEAMS.

MANUFACTURER SHALL ALSO FURNISH THE HURON COUNTY ENGINEERS OFFICE WITH A LOAD RATING ANALYSIS REPORT PER ODOT BRIDGE DESIGN MANUAL, SECTION 900.

ITEM 512

ALL EXPOSED CONCRETE SURFACES OF THE ABUTMENTS, INCLUDING WINGWALLS, AND LIMITS OF THE CONCRETE SUPERSTRUCTURE, AS PER PLAN DETAILS, SHALL BE SEALED. EPOXY-URETHANE.

ITEM 516 - BEARING PAD SHIMS, AS PER PLAN

1/8 INCH THICK PERFORMED BEARING PAD SHIMS, PLAN AREA 6 INCHES BY 12 INCHES SHALL BE PLACED UNDER THE ELASTOMERIC BEARING PADS WHERE REQUIRED FOR PROPER BEARING. PAYMENT WILL BE MADE AT THE CONTRACT BID PRICE FOR ITEM 516 - 1/8 INCH PERFORMED BEARING PADS. ANY UNUSED SHIMS SHALL BECOME THE PROPERTY OF THE COUNTY.

DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE RIVER. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.

OVERHEAD (O/H) UTILITY LINES

DURING CONSTRUCTION OF THE PROJECT THE CONTRACTOR SHALL GIVE SPECIAL ATTENTION TO THE EXISTING O/H UTILITY LINES LOCATED WITHIN THE GENERAL AREA OF THE PROJECT. IN PLANNING CONSTRUCTION AND REMOVAL OPERATIONS, THE CONTRACTOR SHALL CONSIDER THE POTENTIAL CONFLICT OF THE O/H UTILITY LINES WITH THE MOVEMENT, TRAVELING AND OPERATIONS OF HIS CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL MODIFY HIS CONSTRUCTION PROCEDURES AND METHODS AS NECESSARY TO ELIMINATE THE CONFLICT MENTIONED ABOVE. THE CONTRACTOR SHALL OBSERVE ALL OSHA RULES AND REGULATIONS, AND PROTECT AND SAFEGUARD THE SAFETY OF THE PERSONNEL AND PROPERTY AT ALL TIMES.

ASBESTOS NOTIFICATION

AN ASBESTOS SURVEY OF THE RIDGE ROAD BRIDGE OVER THE HURON RIVER, SCHEDULED FOR REPLACEMENT, WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. THE SURVEY DETERMINED THAT NO ASBESTOS IS PRESENT ON THE BRIDGE.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORMS, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER, WILL BE PROVIDED TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO:

SHANNON NABORS
OHIO EPA
NORTHWEST DISTRICT OFFICE
347 N. DUNBRIDGE ROAD
BOWLING GREEN, OHIO 43402
(419) 352-8461
FAX (419) 352-8468

AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION, THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER.

INFORMATION REQUIRED ON THE FORM WILL INCLUDE:

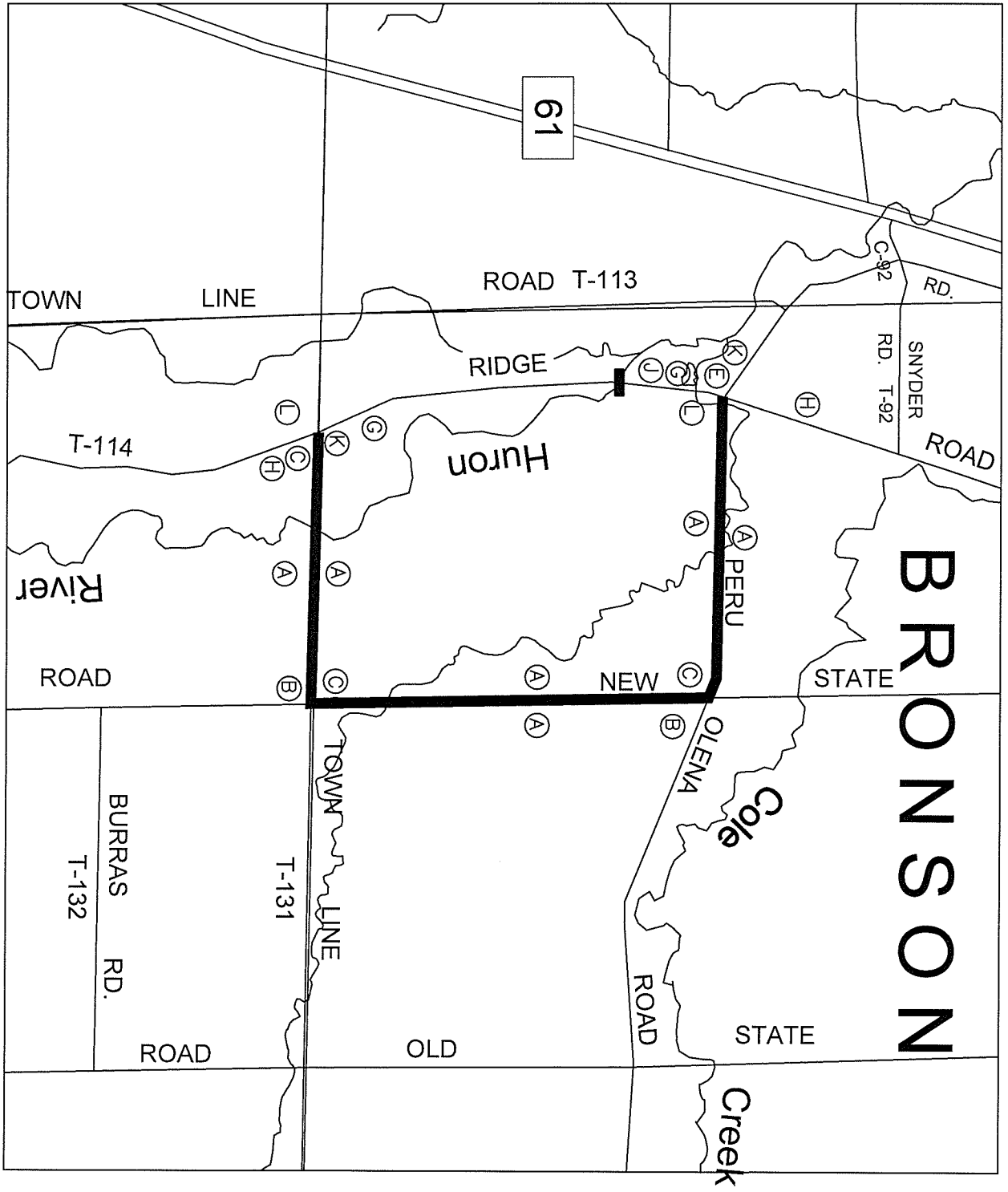
- 1) THE CONTRACTOR'S NAME AND ADDRESS.
- 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF BRIDGE REMOVAL.
- 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED

REFER TO THE ASBESTOS SURVEY SPECIAL PROVISION.

THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM.

STRUCTURE GENERAL NOTES

**RIDGE ROAD
HUR-T.R.114-06.43**

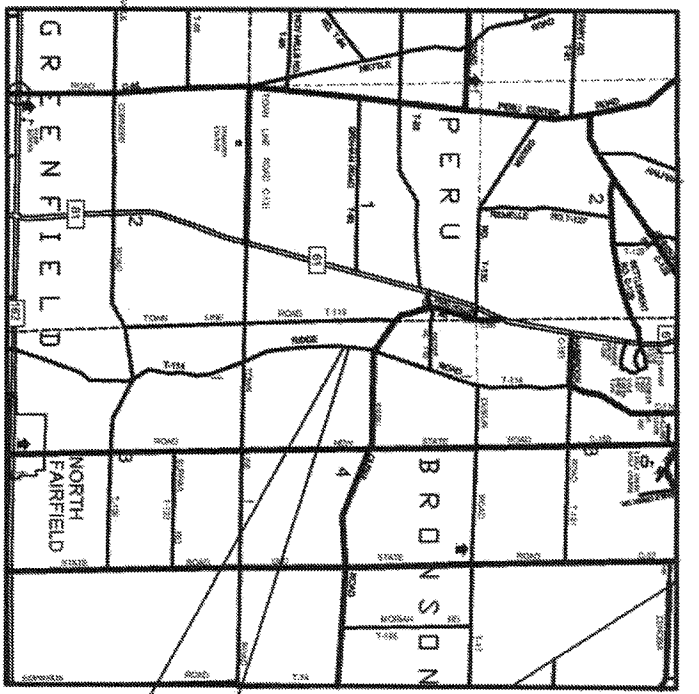


- Ⓐ DETOUR M4-8-24
RIDGE ROAD D3-1-VAR
M6-3-21
- Ⓑ DETOUR M4-8-24
RIDGE ROAD D3-1-VAR
M6-1L-21
- Ⓒ DETOUR M4-8-24
RIDGE ROAD D3-1-VAR
M6-1R-21
- Ⓓ RIDGE ROAD D3-1-VAR
END DETOUR M4-8A-24
- Ⓔ BRIDGE OUT MILES AHEAD LOCAL TRAFFIC ONLY R11-3B-60
M4-10L-48 MOUNTED ON TYPE III BARRICADE
- Ⓕ BRIDGE OUT MILES AHEAD LOCAL TRAFFIC ONLY R11-3B-60
M4-10R-48 MOUNTED ON TYPE III BARRICADE
- Ⓖ ROAD CLOSED AHEAD W20-3-36
- Ⓗ DETOUR AHEAD W20-3-36
- Ⓘ ROAD CLOSED R11-2-48 MOUNTED ON TYPE III BARRICADE
- Ⓛ ROAD CLOSED AHEAD W20-3-36
500 FEET W16-2P-30
- Ⓚ ROAD WILL BE CLOSED _____ DAYS FOR HURON COUNTY ENGINEER W20-H14
— SINGLE POST SIGN
— TYPE III BARRICADE (PORTABLE)
- Ⓛ NO OUTLET W20-3-36

CALCULATED MSK
CHECKED LET

DETOUR PLAN

HUR-T.R.114-06.43



LATITUDE: 41°-09'-21" LONGITUDE: 82°-38'-03"

END ACQUISITION S.L.M 1.12
BEGIN ACQUISITION S.L.M 1.07

RIGHT OF WAY LEGEND SHEET HUR-TR 114-06.43

(BR-114-01.09)

GREAT LOTS 39 & 40, SECTION 4
T 3 N, R 22 W
BRONSON TOWNSHIP
HURON COUNTY

INDEX OF SHEETS

1	LEGEND SHEET
2	CENTERLINE PLAT
3	PROPERTY MAP
4	SUMMARY OF ADDITIONAL RIGHT OF WAY
5	RIGHT OF WAY DETAIL

UTILITY OWNERS		
TYPE	NAME & ADDRESS	NAME & ADDRESS
TELEPHONE	FRONTIER COMMUNICATIONS 83 TOWNSEND AVENUE NORWALK OHIO 44857 419-744-3613 SCOTT WETZEL	NORTHERN OHIO RURAL WATER 2205 U.S. RTE. 20 NORWALK OHIO 44857 419-888-7213 BRIAN PUDER
ELECTRIC	FIRELANDS ELECTRIC COOPERATIVE INC. 1 ENERGY PLACE NEW LONDON OHIO 44851 1-800-533-8658 DENNY MARRUGG	

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

CONVENTIONAL SYMBOLS

County Line	-----
Township Line	-----
Section Line	-----
Corporation Line	-----
Fence Line (Ex.)	-----
Center Line	-----
Right of Way (Ex.)	-----
Right of Way (Pr.)	-----
Standard Highway Edge (Ex.)	-----
Temporary Right of Way	-----
Channel Easement (Pr.)	-----
Utility Easement	-----
Guadrail (Ex.)	-----
Construction Limits	-----
Edge of Pavement (Ex.)	-----
Edge of Pavement (Pr.)	-----
Edge of Shoulder (Ex.)	-----
Edge of Shoulder (Pr.)	-----

LEGEND
WD = WARRANTY DEED
SH = STANDARD HIGHWAY EASEMENT
SL = SLOPE EASEMENT
CH = CHANNEL EASEMENT
PR = PROPERTY RIGHT
T = TEMPORARY EASEMENT

STRUCTURE KEY

□	RESIDENTIAL
■	COMMERCIAL
▨	OUT-BUILDING

LEGEND FOR BEARINGS: ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND HAVE BEEN ASSUMED.

Ditch / Creek (Ex)	-----
Ditch / Creek (Pr)	-----
Tree Line Hook	-----
Property Line Symbol	-----
Tree (Pr.)	-----
Tree (Remove)	-----
Evergreen (Ex)	-----
Wetland (Pr)	-----
Post (Ex)	-----
Light (Ex)	-----
Fire Hydrant (Ex)	-----
Water Valve (Ex)	-----
Telephone Pole (Ex)	-----
Light Pole (Ex)	-----

○	5/8" Iron Bar Monument Set
●	30" Long, With Plastic Cap
○	Stamped "Huron County Engineer"
○	Unless Otherwise Noted.
○	Monument Found As Noted
○	RR Road Record
○	OT Original Township Survey
○	P Plot
○	D Deed
○	R Record
○	C Calculated
○	M Measured
○	X Existing Fence

PROJECT DESCRIPTION

IMPROVEMENT OF 0.15 MILE OF TOWNSHIP ROAD 114 (RIDGE ROAD) BY REPLACEMENT OF AN EXISTING STEEL TRUSS OVER THE EAST BRANCH OF THE HURON RIVER WITH A CONCRETE BOX BEAM TYPE STRUCTURE INCLUDING APPROACH ROADWAY WORK.

THE EXISTING AND PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF RIGHT OF WAY.

PLANS PREPARED BY:

FIRM NAME: HURON COUNTY ENGINEERS OFFICE

R/W DESIGNER: GARY L. GILLEN, P.S.

R/W REVIEWER: LEE E. TANSEY, P.E., P.S.

FIELD REVIEWER: GARY L. GILLEN, P.S.

PRELIMINARY FIELD REVIEW DATE: 07/14/2012

TRACINGS FIELD REVIEW DATE: 08/24/2012

OWNERSHIP UPDATED BY: GARY L. GILLEN, P.S.

DATE COMPLETED: 08/25/2012

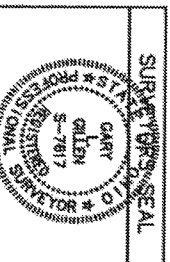
PLAN COMPLETION DATE: 08/25/2012

I, GARY L. GILLEN, P.S. 7617 HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE HURON COUNTY ENGINEER IN 2016. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. THE HORIZONTAL COORDINATES EXPRESSED HEREIN ARE BASED ON AN ASSUMED COORDINATE SYSTEM, AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING PROPERTY LINES AND CENTERLINE OF EXISTING RIGHT OF WAY FOR PROPERTY TAXES CONTAINED HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4433-37 COMMONLY KNOWN AS "A MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS NOTED, THE WORDS I AND MY AS USED HEREIN ARE TO MEAN EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.

GARY L. GILLEN, PROFESSIONAL LAND SURVEYOR NO. 7617

DATE: 8/25/17

Plan Prepared By:



THE OFFICE OF THE HURON COUNTY ENGINEER
LEE E. TANSEY, P.E., P.S.
150 JEFFERSON STREET
NORWALK OHIO 44857
PH: (419) 668-1997

FEDERAL PROJECT NO. E161170

PID NO. 93990

R/W DESIGNER G.L.G.
R/W REVIEWER L.E.T.

RIGHT OF WAY LEGEND SHEET

HUR-TR114-06.43

1
5
0

MONUMENT TABLE

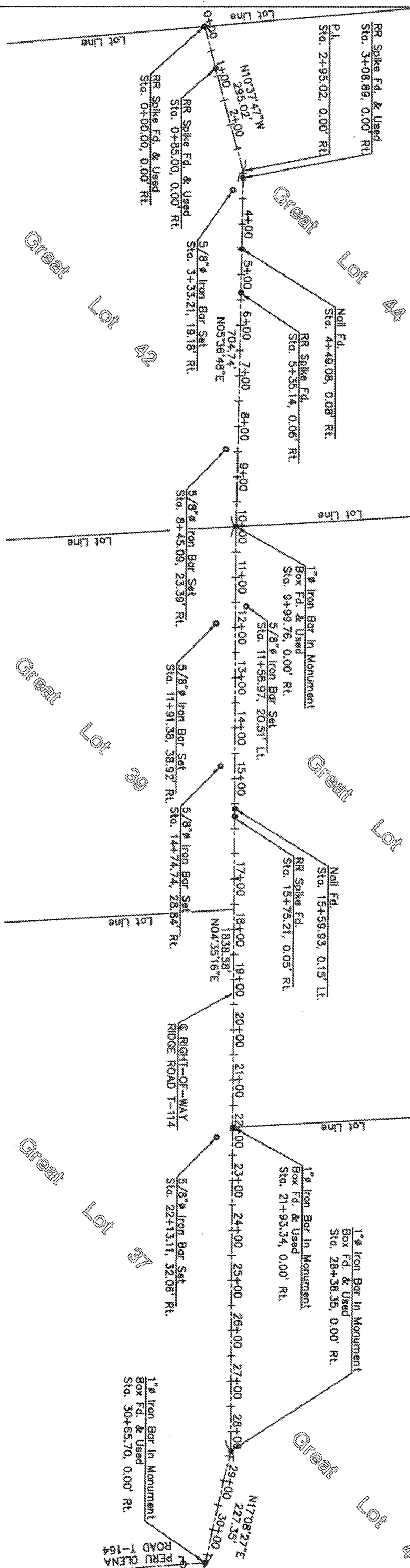
CENTERLINE OF RIGHT OF WAY	PROJECT COORDINATES	DESCRIPTION
STATION	OFFSET FEET	# NORTH FEET EAST FEET
00+00	0.00	181 6959.3203 7964.792
00+85.00	0.00	180 7042.8416 7949.0844
2+95.02	0.00	36 7249.2802 7910.3724
03+08.89	0.00	129 7263.0837 7911.7291
03+93.21	19.18	103 7285.4131 7933.1965
04+49.08	0.08	178 7402.5933 7925.5167
05+35.14	0.06	177 7488.2424 7933.9702
08+45.09	23.39	102 7794.4259 7987.4513
08+49.76	0.00	24 7950.6396 7979.3054
11+56.97	-20.50	99 8108.9892 7971.4414
11+91.38	38.92	100 8138.5278 8033.4265
14+74.74	28.84	98 8421.793 8046.0423
15+49.99	-0.15	23 8509.0236 8023.9572
15+75.21	0.05	22 8524.2389 8025.3845
21+93.34	0.00	21 9140.397 8074.7758
22+13.11	32.06	95 9157.5374 8108.3122
28+38.35	0.00	51 9783.3328 8126.3673
30+65.70	0.00	14 10000.5848 8193.3718
31+90.10	0.00	15 10062.4842 8211.1625

NO EXISTING MONUMENTS ARE EXPECTED TO BE DISTURBED OR DESTROYED DURING CONSTRUCTION.
STATIONS AND OFFSETS SHOWN ARE FROM THE CENTERLINE OF RIGHT OF WAY.
BASIS FOR BEARINGS: ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND HAVE BEEN ASSUMED.
BASIS OF THE EXISTING CENTERLINE OF RIGHT OF WAY, RIGHT OF WAY WIDTH AND LOCATION WERE DETERMINED USING HURON COUNTY TAX MAPS, SURVEYS RECORDED AT THE HURON COUNTY TAX MAP DEPARTMENT AND PROJECT FILES FROM THE HURON COUNTY ENGINEERS OFFICE.

HUR-TR 114-06.43
GREAT LOTS 39 & 40, SECTION 4
T 3 N, R 22 W
BRONSON TOWNSHIP
HURON COUNTY

MONUMENT LEGEND

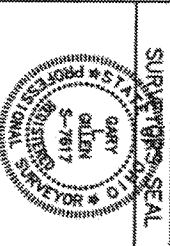
- 5/8" Iron Bar Monument Set
- 30" Long, With Plastic Cap Stamped "Huron County Engineer" Unless Otherwise Noted.
- Monument Found As Noted
- Road Record
- Original Township Survey
- OT Plot
- D Deed
- R Record
- C Calculated
- M Measured
- X Existing Fence



RECEIVED _____ 20
RECORDED _____ 20
BOOK _____ PAGE _____
HURON COUNTY RECORDER _____

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.
CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

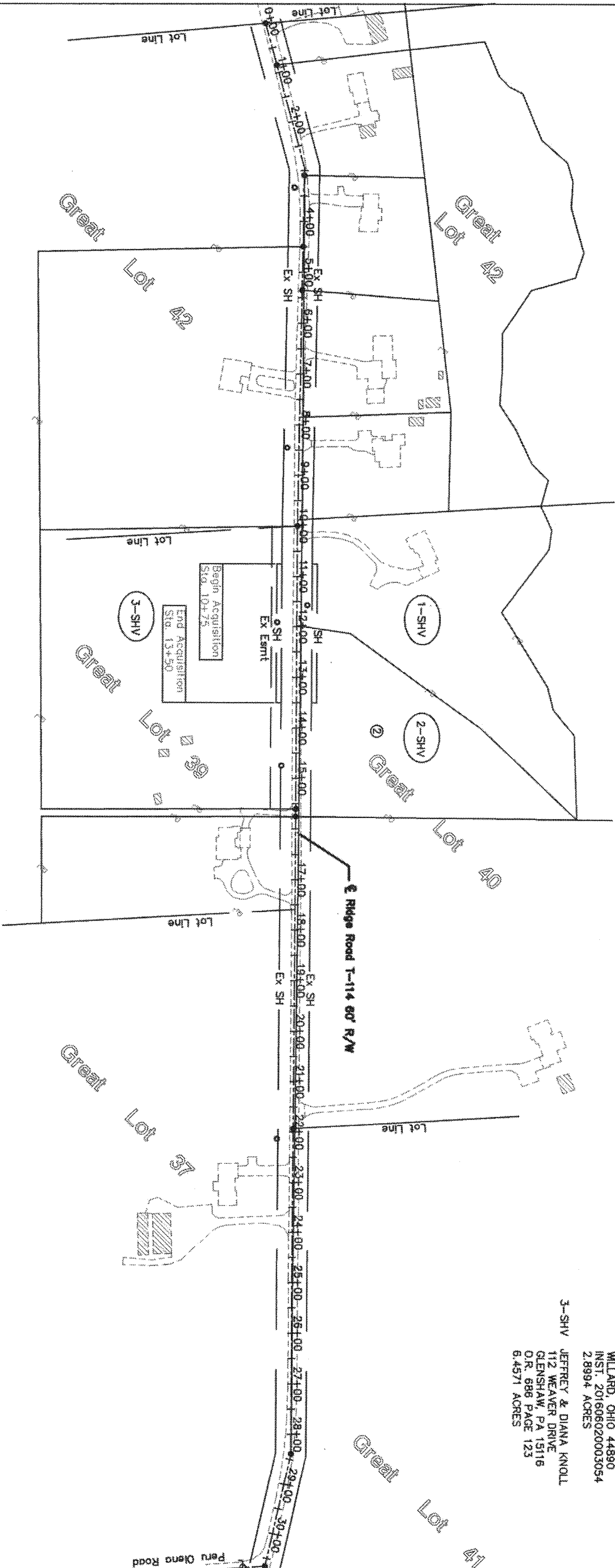
I, GARY L. GILLEN, P.S. 7617 HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE HURON COUNTY ENGINEER IN 2016. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. THE HORIZONTAL COORDINATES EXPRESSED HEREIN ARE BASED ON AN ASSUMED COORDINATE SYSTEM. AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING PROPERTY LINES AND CENTERLINE OF EXISTING RIGHT OF WAY FOR PROPERTY TAKES CONTAINED HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4433-37 COMMONLY KNOWN AS "A MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS NOTED, THE WORDS I AND MY AS USED HEREIN ARE TO MEAN EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.
GARY L. GILLEN, PROFESSIONAL LAND SURVEYOR NO. 7617
DATE: 8/25/17



Plan Prepared By:
THE OFFICE OF THE HURON COUNTY ENGINEER
LEE E. TANSEY, P.E., P.S.
150 JEFFERSON STREET
NORWALK, OHIO 44857
PH: (419) 868-1987

HUR-TR 114-06.43

GREAT LOTS 39 & 40, SECTION 4
 T 3 N, R 22 W
 BRONSON TOWNSHIP
 HURON COUNTY



RECORDED WATERLINE EASEMENT
 20' WIDE WATERLINE EASEMENT
 ACROSS THE KNOLL PROPERTY,
 RECORDED IN ORIGINAL VOLUME
 668 PAGE 658

OWNERSHIP NAME AND NUMBER

- 1-SHV ANDRES VARGAS
 555 RIDGE ROAD N.
 WILLARD, OHIO 44890
 O.R. 339 PAGE 646
 3.9616 ACRES
- 2-SHV CHARLES & KELLY HESSLER
 1065 BIG BASS ROAD
 WILLARD, OHIO 44890
 INST. 201606020003054
 2.8994 ACRES
- 3-SHV JEFFREY & DIANA KNOLL
 112 WEAVER DRIVE
 GLENSHAW, PA 15116
 O.R. 686 PAGE 123
 6.4571 ACRES

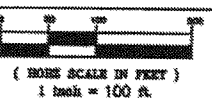
DATE COMPLETED: 08/25/2017

REV. BY	DATE	DESCRIPTION

HUR-TR-114-06.43

PROPERTY MAP

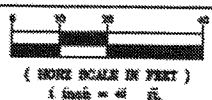
PID NUMBER	R/W DESIGNER
93990	GLG
	R/W REVIEWED
	LET



0	3
0	5

HUR-TR 114-01.09

GREAT LOTS 39 & 40, SECTION 4
 T 3 N, R 22 W
 BRONSON TOWNSHIP
 HURON COUNTY

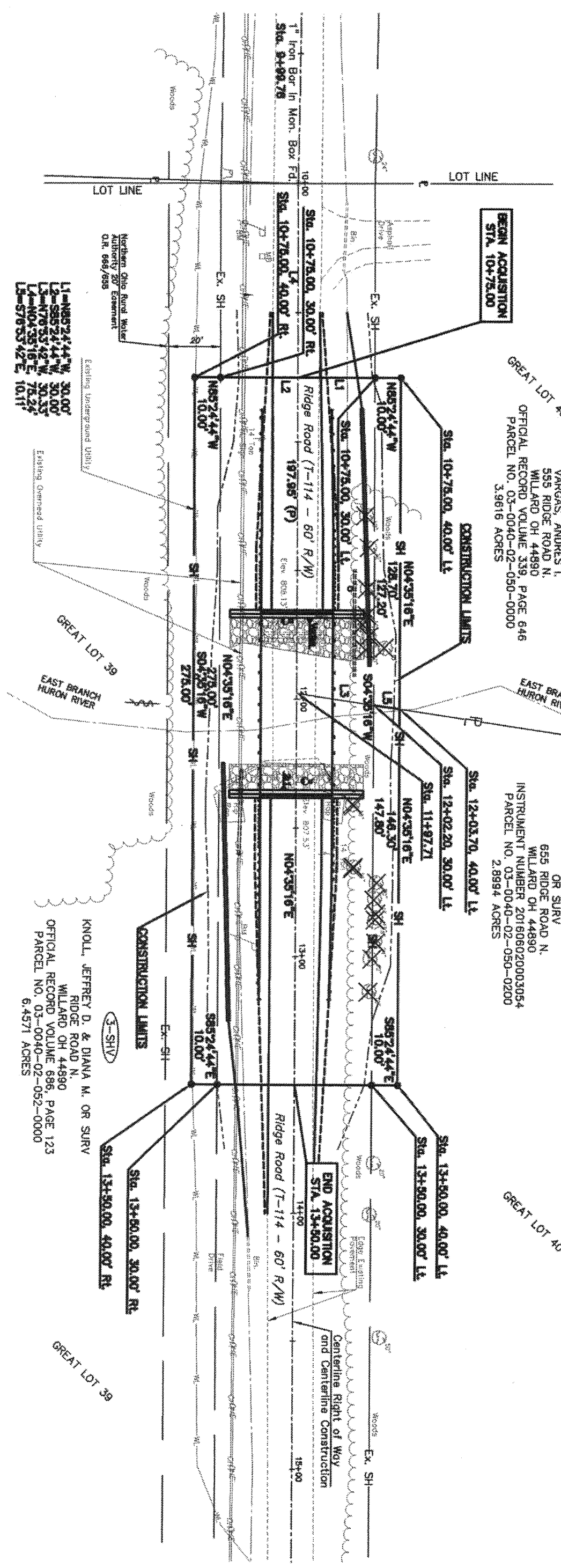


1-SHV
 VARGAS, ANDRES I.
 555 RIDGE ROAD N.
 WILLARD OH 44890
 OFFICIAL RECORD VOLUME 339, PAGE 646
 PARCEL NO. 03-0040-02-050-0000
 3.9616 ACRES

2-SHV
 HESSLER CHARLES F. & KELLY A. HESSLER
 OR SURV
 655 RIDGE ROAD N.
 WILLARD OH 44890
 INSTRUMENT NUMBER 201606020003054
 PARCEL NO. 03-0040-02-050-0200
 2.8994 ACRES

1-**N85°24'44"W** 30.00'
 2-**S85°24'44"W** 30.00'
 3-**N78°53'42"W** 30.33'
 4-**N04°35'16"E** 78.24'
 5-**S78°53'42"E** 104.11'

3-SHV
 KNOLL, JEFFREY D. & DIANA M. OR SURV
 RIDGE ROAD N.
 WILLARD OH 44890
 OFFICIAL RECORD VOLUME 686, PAGE 123
 PARCEL NO. 03-0040-02-052-0000
 6.4571 ACRES



LEGEND

- 5/8" # Iron Bar Monument Set
- 30" Long, With Plastic Cap
- Stamped "Huron County Engineer"
- Unless Otherwise Noted, Monument Found As Noted
- RR Road Record
- OT Original Township Survey
- P Plat
- D Deed
- C Record
- R Calculated
- M Measured
- X Existing Fence

REV BY	DATE

DATE COMPLETED: 08/25/2017